

1998 SOYBEAN CHEMICAL USAGE

Nitrogen was applied to 17% of the total 1998 soybean acreage in the 16 states surveyed. Eighteen percent of Minnesota soybean acres were treated with nitrogen. Growers in the 16 states applied an average of 1.1 treatments per acre and used an average of 20 pounds per treatment. In the states surveyed, 24% of the soybean acreage received phosphate fertilizer. Potash fertilizer was applied to 27% of the soybean acreage.

Herbicides were applied to 95% of the total soybean acreage in the 16 states surveyed. Glyphosate was applied to 46% of the acreage, with Pendimethalin and Imazethapyr applied to 18% and 17% of the acreage, respectively. Growers in the surveyed states applied insecticide to only 2 percent of the total soybean acres planted. With the exception of insecticide applications in Arkansas, Louisiana, Mississippi, and North Carolina, there were too few reports to publish individual state data for the insecticides. Growers reported few fungicide or other chemical applications.

SOYBEAN: ACREAGE, PERCENT RECEIVING CHEMICALS, NUMBER OF APPLICATIONS, RATE OF APPLICATION, SELECTED STATES, 1998

State	Area Planted	Nitrogen			Phosphate			Potash			Herbicide	Insecticide
		Area Applied	Applications	Rate per Application	Area Applied	Applications	Rate per Application	Area Applied	Applications	Rate per Application	Area Applied	Area Applied
	1,000 Acres	Percent	Number	Pounds	Percent	Number	Pounds	Percent	Number	Pounds	Percent	Percent
IA 2/	10,500	10	1.1	18	13	1.0	47	14	1.0	52	100	--
MN 2/	6,900	18	1.1	21	17	1.0	33	9	1.0	56	97	--
IL 2/	10,700	7	1.0	23	12	1.0	60	24	1.0	124	95	--
IN 2/	5,700	15	1.6	18	26	1.1	42	51	1.1	82	98	--
TOTAL 3/	65,745	17	1.1	20	24	1.0	47	27	1.0	78	95	2

1/ Refers to acres receiving one or more applications of a specific chemical.

2/ Insufficient reports to publish data for insecticides.

3/ Refers to 16 major soybean states including: AR, IL, IN, IA, KS, KY, LA, MI, MN, MS, MO, NE, NC, OH, SD, and TN.

SOYBEANS: FREQUENCY AND EXTENT OF CHEMICAL USAGE BY ACTIVE INGREDIENT, MINN

Active Ingredient	Area Applied 1/	Applications	Rate per Application	Rate per year	Total Applied
	Percent	Number	Pounds	Pounds	1,000 Pounds
HERBICIDES:					
Acifluorfen	4	1.0	0.160	0.160	41
Bentazon	4	1.0	0.730	0.730	221
Clomazone	5	1.0	0.700	0.700	222
Fenoxaprop	5	1.0	0.110	0.110	40
Fluazifop	6	1.0	0.040	0.040	15
Glyphosate	26	1.3	0.690	0.960	1,686
Imazamox	26	1.0	0.030	0.030	52
Imazethapyr	27	1.0	0.030	0.030	49
Pendimethalin	22	1.0	1.230	1.230	1,889
Sethoxydim	3	1.0	0.190	0.190	36
Thiophencarboximide	8	1.0	0.002	0.002	1
Trifluralin	22	1.0	0.880	0.880	1,367

1/ Refers to acres receiving one or more applications of a specific chemical.